



Transportation Commission

October 13, 2011

November 3 – Draft preferred alternative.

	Nov-Dec 2010	Jan-Feb 2011	Mar-Apr 2011	May-Jun 2011	Jul-Aug 2011	Sep-Oct 2011	Nov-Dec 2011	2012
CAC	Background & Context	Issues & Op Land Use, Tra Urban Design,	nsportation, Analysis of Alternatives		Development of Preferred Alternative	Final Report	Plan and Amendments	
Outreach	Community Briefings ———Open Houses							ensive Code
Reporting	Regular Briefings to Transportation Commission & Planning Commission Regular Briefings to City Council						Comprehe Development	



December 1 – Finalize preferred alternative.

	Nov-Dec 2010	Jan-Feb 2011	Mar-Apr 2011	May-Jun 2011	Jul-Aug 2011	Sep-Oct 2011	Nov-Dec 2011	2012
CAC	Background & Context	Issues & Op Land Use, Tra Urban Design,		oortation, Applysis of Alternatives		Development of Preferred Alternative	Final Report	Plan and Amendments
Outreach	● Community Briefings — Open Houses							Comprehensive Plan and Development Code Amendm
Reporting	Regular Briefings to Transportation Commission & Planning Commission Regular Briefings to City Council						Comp	

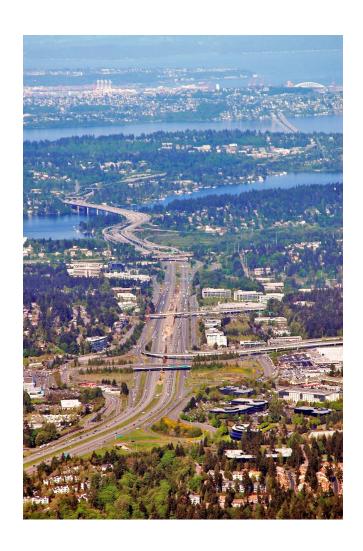


January 5 – Approve final report and recommendation.

	Nov-Dec 2010	Jan-Feb 2011	Mar-Apr 2011	May-Jun 2011	Jul-Aug 2011	Sep-Oct 2011	Nov-Dec 2011	2012
CAC	Background & Context	Issues & Op Land Use, Tra Urban Design	nsportation, Applysis of Alternatives		Development of Preferred Alternative	Final Report	Plan and Amendments	
Outreach	•——— Community Briefings ———• Open Houses							Comprehensive Plan and Development Code Amendm
Reporting	Regular Briefings to Transportation Commission & Planning Commission Regular Briefings to City Council							Comp



Project Timeline



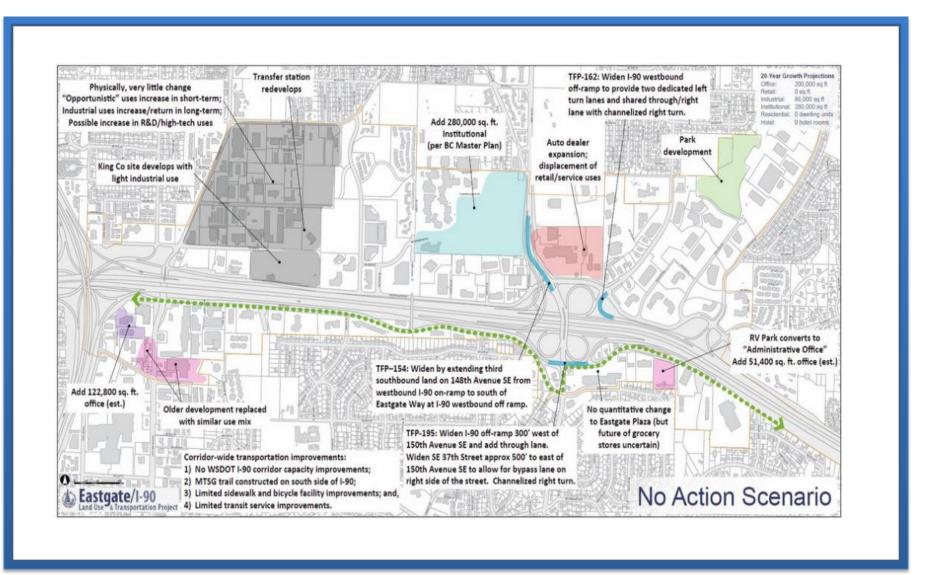
Draft Alternatives



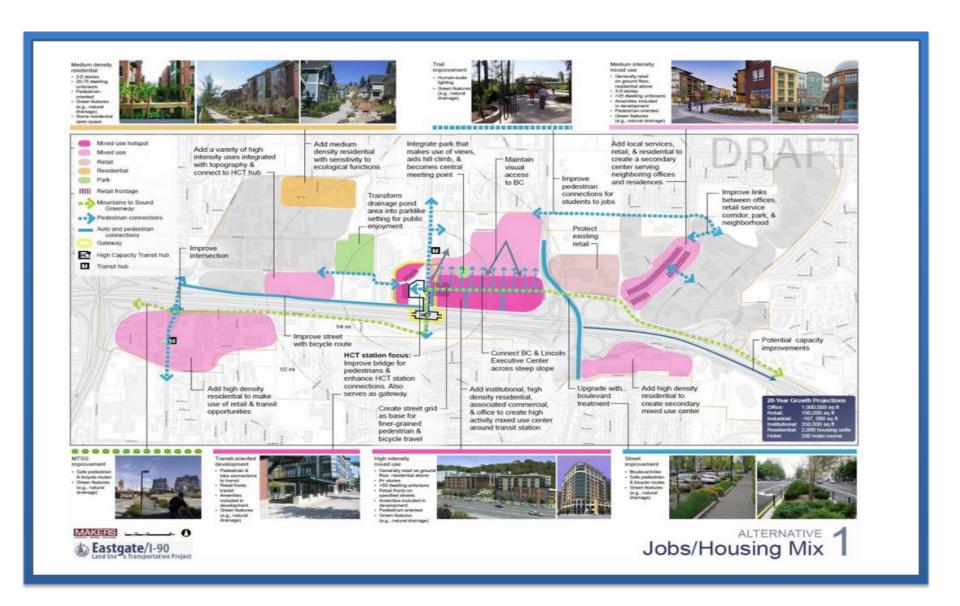
Land Use Type	Market Study	No Action	Alternative 1	Alternative 2	Alternative 3
Office (square feet)	1,500,000	200,000	1,000,000	2,000,000	500,000
Retail (square feet)	N/A	0	100,000	50,000	200,000
Industrial (square feet)	N/A	86,000	-167,000	0	0
Institutional (square feet)	N/A	280,000	350,000	420,000	280,000
Residential (units)	1,800	0	2,000	0	400
Hotel (rooms)	200	0	200	300	400



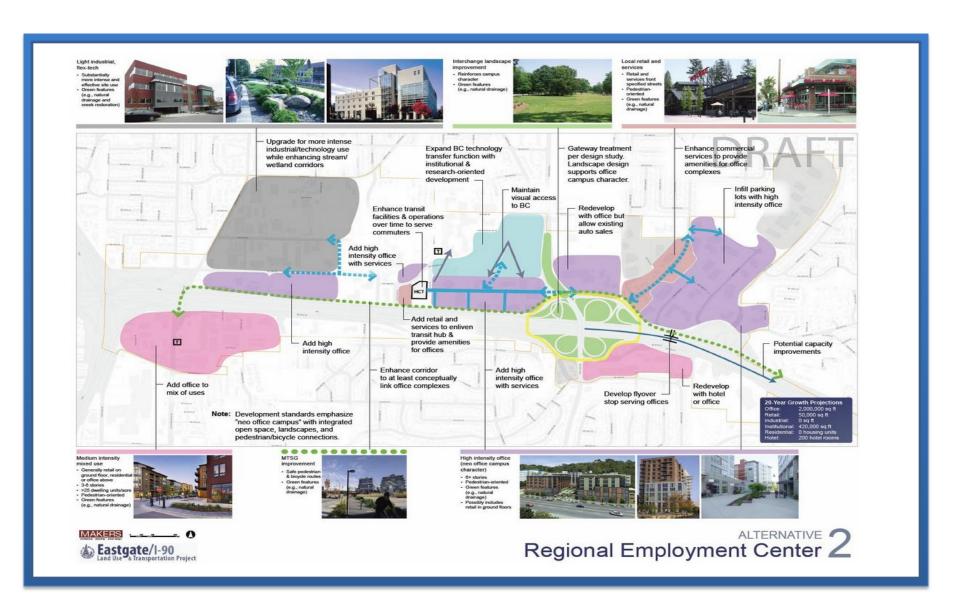
Market Feasibility



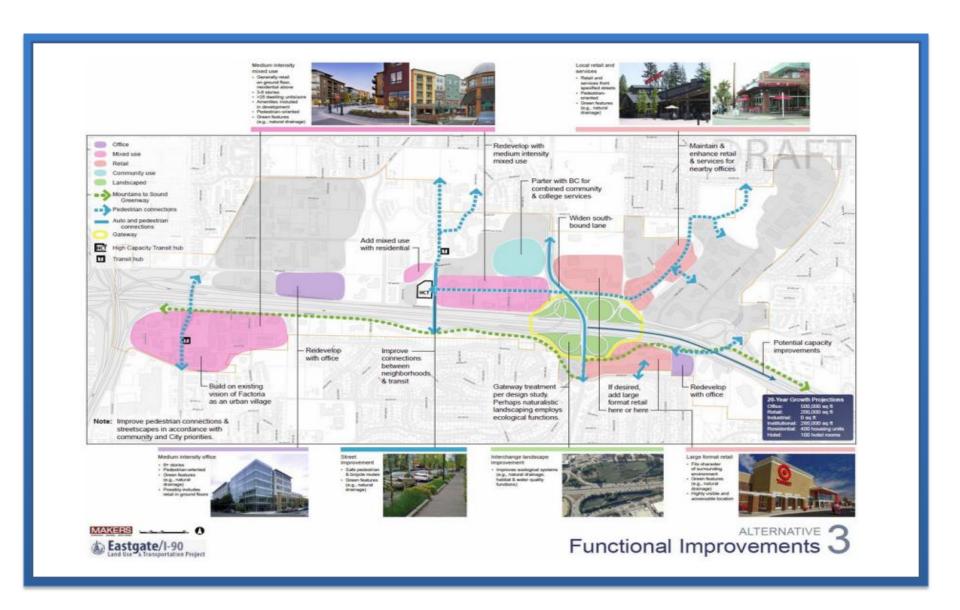




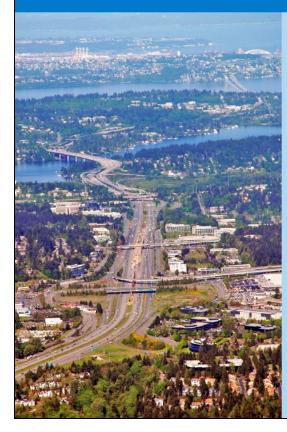












Evaluation of Draft Alternatives Report

Prepared by the
Transportation and
Planning & Community
Development Departments,
August 2011

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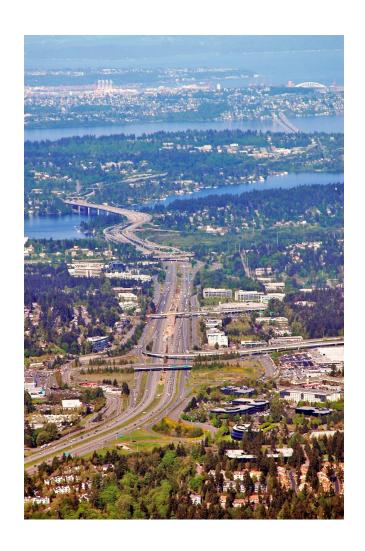
- I. Introduction
- II. Evaluation Summary
- III. Summary of Draft Alternatives
- IV. Evaluation of Alternatives

Market Feasibility
Economic Development
Compatibility with Adjacent Neighborhoods
Environmental Quality/Character
Corridor Character
Parks, Open Space, and Recreation
Integration of Land Use and Transportation
Fiscal Feasibility
Partnerships

Appendices

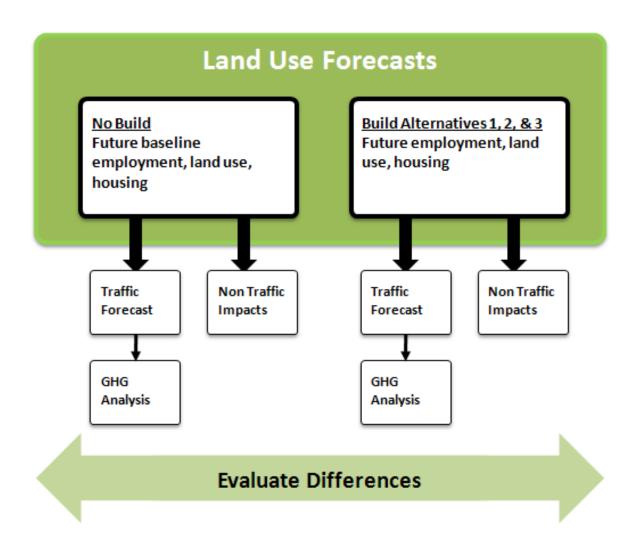
- A: Draft Alternatives (May 19, 2011)
- B: Redevelopment Analysis (Heartland) (Note: This Appendix will be provided at a later date)
- C: Environmental Review Report (ESA)
- D: Transportation Project List (City of Bellevue)
- E: Traffic Assessment (Jim Ellison)
- F: Transit Assessment (Nelson\Nygaard)
- G: Greenway Trail Assessment (Toole Design Group)
- H: Connectivity Analysis (Transpo Group)
- I: Greenhouse Gas Assessment (Fehr & Peers)





Assessment of Alternatives



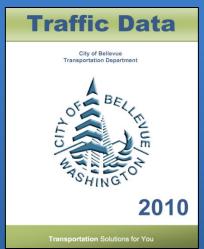




Land Use and Transportation Integration

There is little discernible difference in the projected 2030 traffic impacts among the No Action scenario and the three land use action alternatives; this is not surprising given the already developed nature of the corridor and limited opportunities for redevelopment potential in any of the alternatives.







Trip Generation

Trip Distribution

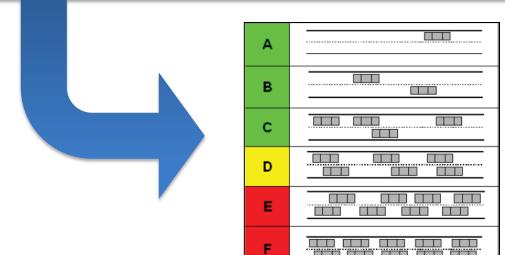
> Mode Choice

Trip Assignment

- Based on land use forecast (ie, 2030)
- Where trips go on the street network
- SOV, HOV, Transit, Ped/Bike
- Trips assigned to specific streets

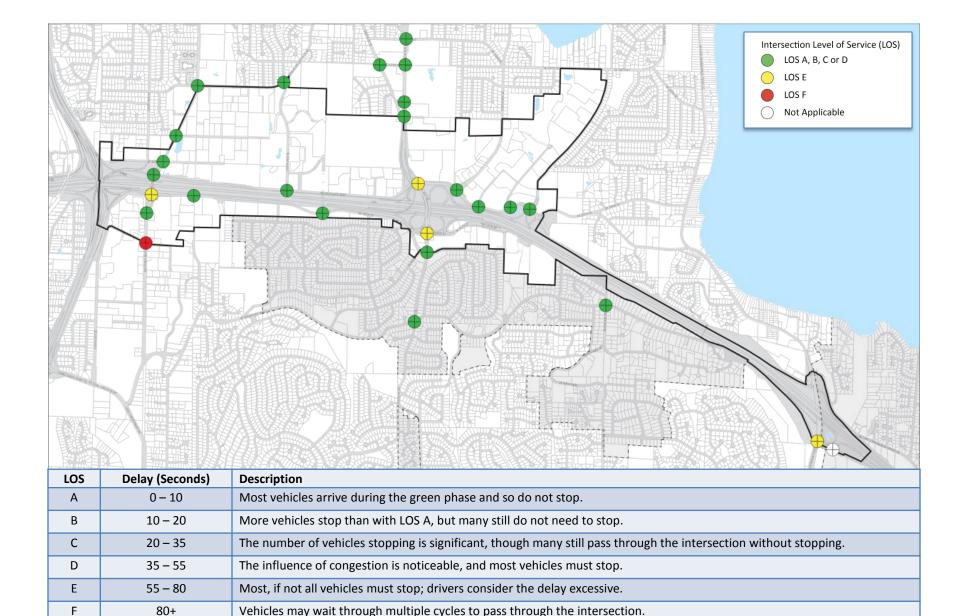
Land Use Forecast for Horizon Year

Transportation Network Assumptions





Travel Demand Modeling





Level of Service (2030)

Existing traffic conditions and the anticipated increase in peak hour traffic volumes, regardless of which 2030 land use alternative is selected, indicate that future roadway, transit, and bicycle/pedestrian improvements will still be important to adequately serve transportation needs in the area.



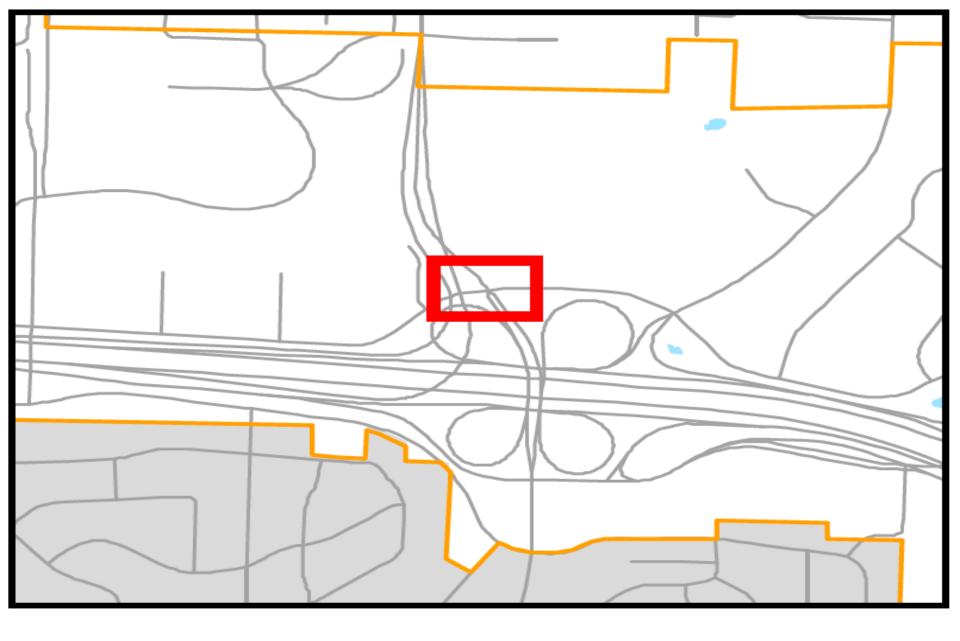
Estimated 2030 PM Peak Hour Volumes at Selected Intersections (vehicles per hour)

Intersection	No Action	Alt 1	Alt 2	Alt 3
SE Eastgate Way & 150 th Ave SE	5,156	5,724	5,744	5,336
128 th Ave SE (Factoria Blvd) & SE 36 th St	5,437	5,345	5,444	5,383
150 th Ave SE & I-90 EB Off-ramp & SE 37 th St	4,216	4,376	4,356	4,307
150 th Ave SE & SE 38 th St	3,713	3,808	3,910	3,734
SE 37 th St & I-90 Eastbound On-ramp	1,714	1,737	1,726	1,803

Source: BKR Model

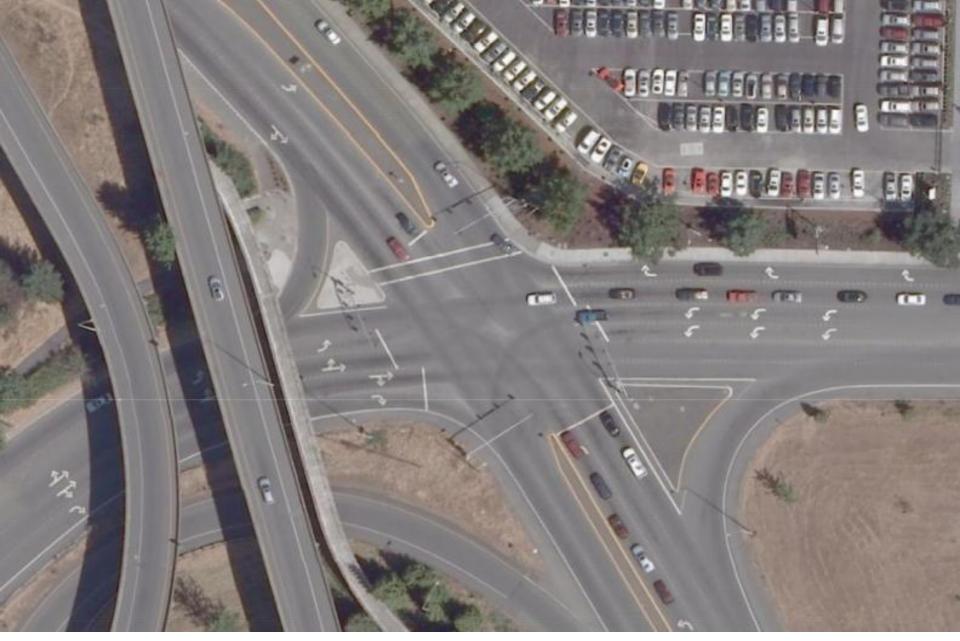
The greatest differences in intersection entering volumes are at SE Eastgate Way & 150th Avenue SE, where there is an 11% increase in 2030 PM peak hour volumes from Alternative 2 to that of the No Action scenario.





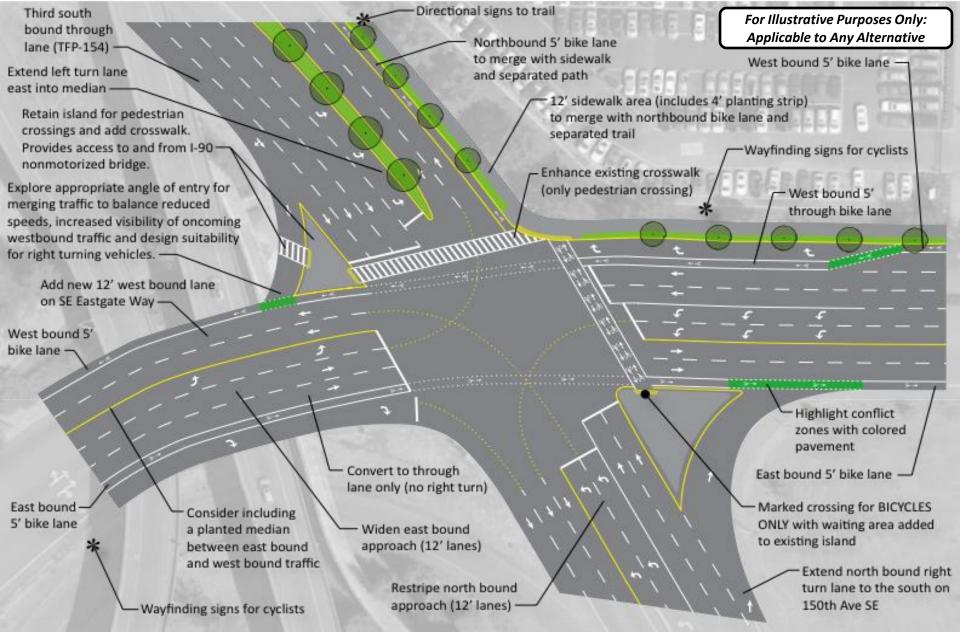


150 Ave SE & Eastgate Way





Existing Conditions

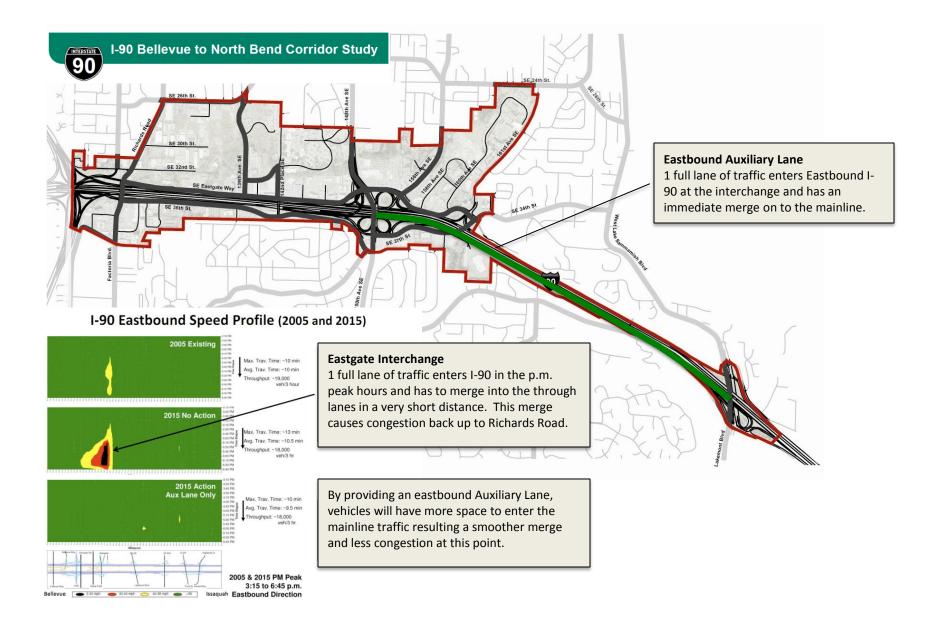




Enhancement Option

Construction of eastbound and westbound auxiliary lanes by WSDOT on I-90 between 150th Avenue SE and Lakemont Boulevard would have significant benefits for the I-90 mainline and would help minimize or eliminate the resulting queuing and congestion on City streets that lead to key onramps within the project study area.



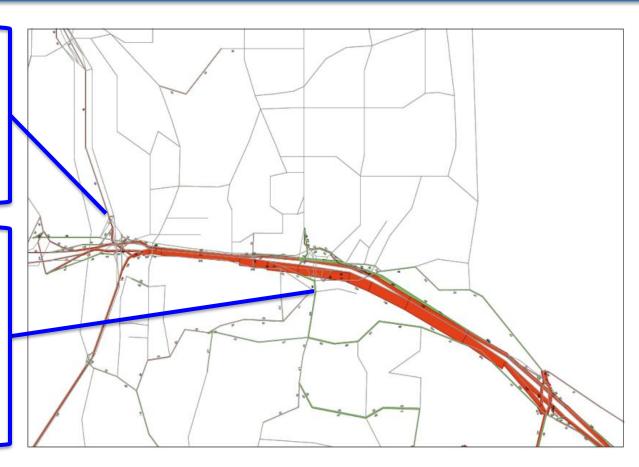




In Bellevue, the current Eastgate interchange operates at or near capacity during peak travel times; often resulting in spillover traffic that causes congestion on the surrounding arterial street network.

With WSDOT improvements, more 2030 trips are expected to access I-90 from the north and south via I-405, instead of using north-south arterials such as 150th Avenue SE.

This situation helps minimize or eliminate the resulting queuing and congestion on City streets leading to on-ramps within the project study area, such as on SE 37th Street and on SE 38th Street.

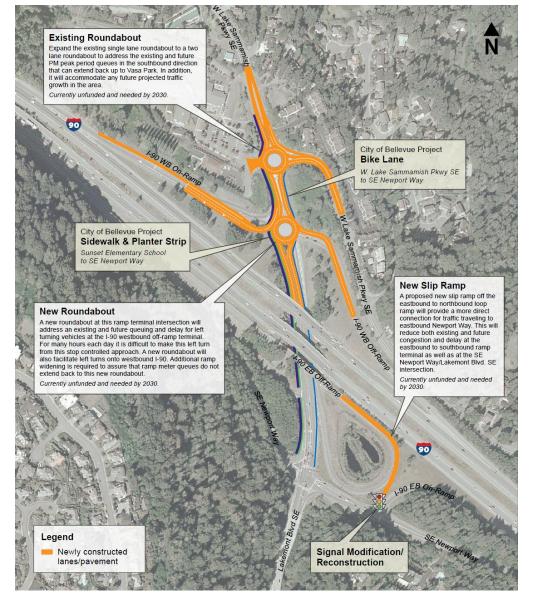




Eastgate Interchange

Constructing a more effective interface between the State's I-90 ramps and overpasses and the City's interconnecting streets through the use of boulevard treatments and/or roundabouts could enhance traffic safety and provide community gateway and identity opportunities.





Simulated Capacity:

- WSDOT I-90 Bellevue to North Bend Corridor Study found that roundabout enhancements improve LOS at both intersections from LOS F in the p.m. hour to LOS B or better in 2030.
- In the a.m. peak hour, the westbound ramps intersection operates at LOS F under its current configuration, while the existing single-lane roundabout to the north operates at LOS D.
- With roundabout improvements,
 both intersections will operate at LOS
 B in the a.m. peak hour.

Update:

 Addition of a new roundabout at the westbound ramp terminal received WSDOT funding for design and construction (2013 completion).





150 Ave SE and SE Eastgate Way (Looking South)



150 Ave SE & I-90 EB Off-Ramp & SE 38 St Intersections (Looking South)

"Modeled existing and future operations of roundabout intersections for the Eastgate interchange show enhanced mobility and merit further consideration as a feasible approach to finding balance between motorized/nonmotorized uses and the interface between community and regional transportation needs."

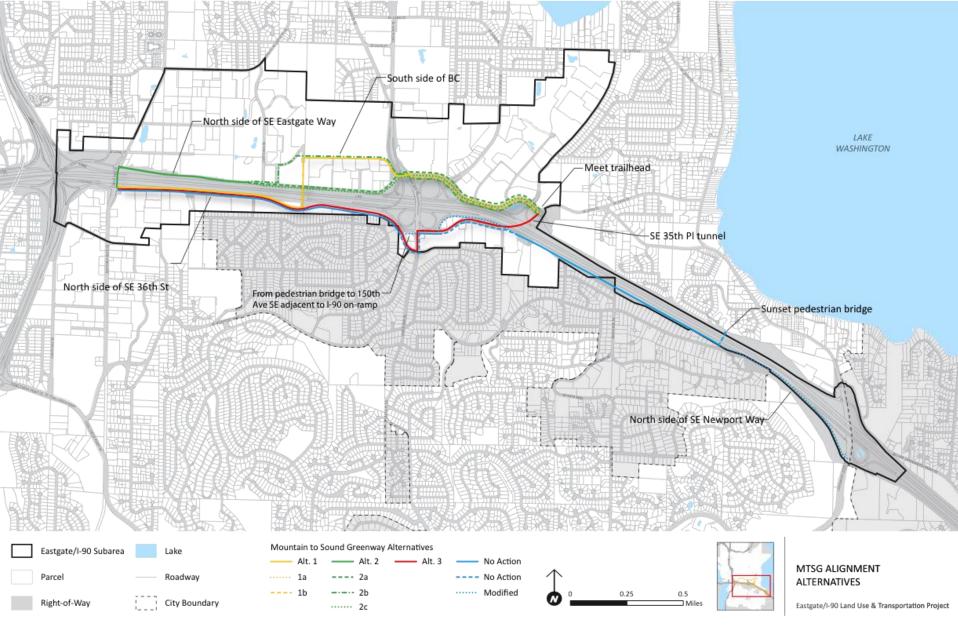
WSDOT Traffic Design,Headquarters



Simulated Capacity

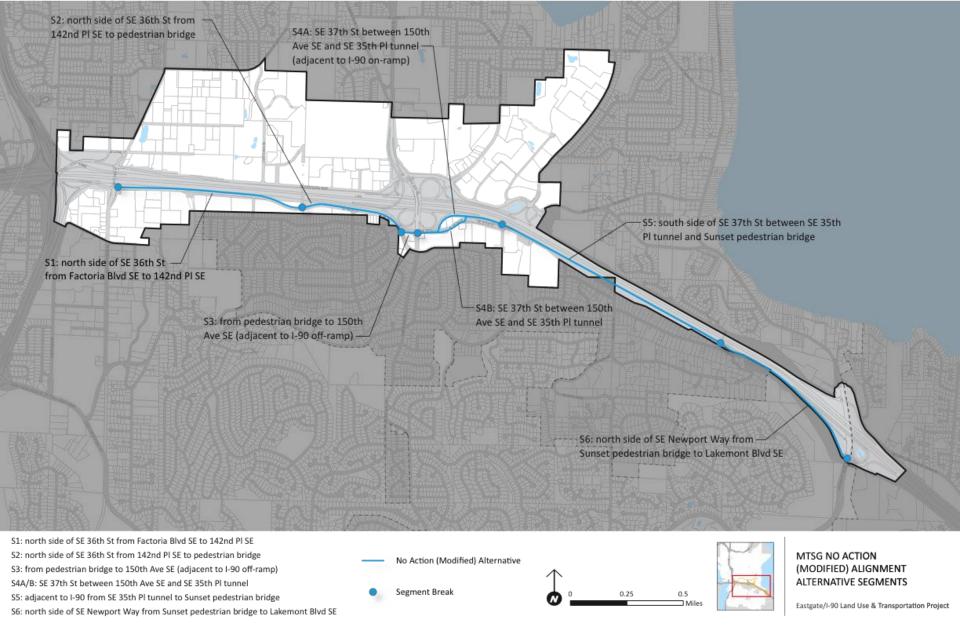
Feedback from outreach ride participants and the consultant team indicate that the preferred Greenway Trail alignment is south of I-90 (identified as "No Action – Modified") and that cyclists should also be accommodated on the frontage road on the north side of I-90.







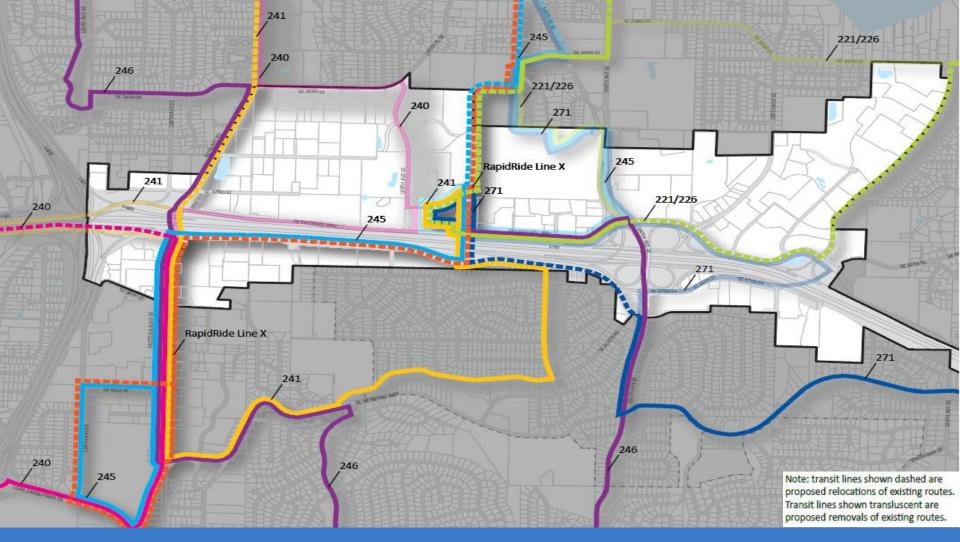
MTSG Trail Alignments





Preferred Trail Alignment

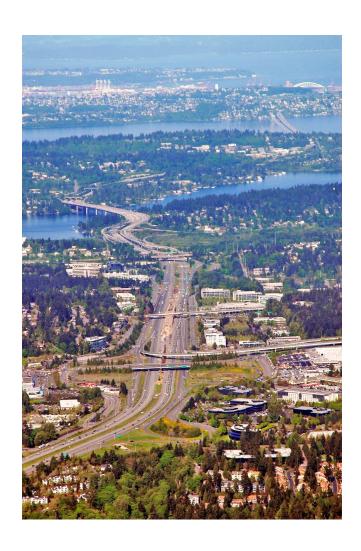
Some of the improvement concepts depicted in the Action Alternatives are expected to significantly improve transit operations in the corridor (e.g., enhanced connections to Bellevue College in Alt 1 & 3).



Routing consistent with Bellevue College to Eastgate P&R Transit Improvement Concept in Alternatives 1 & 3. Specific themes found in the recommendation include increasing route directness to minimize in-bus travel time, serving all-day destinations with more frequent transit, and connecting the Eastgate area with more regional transit destinations.

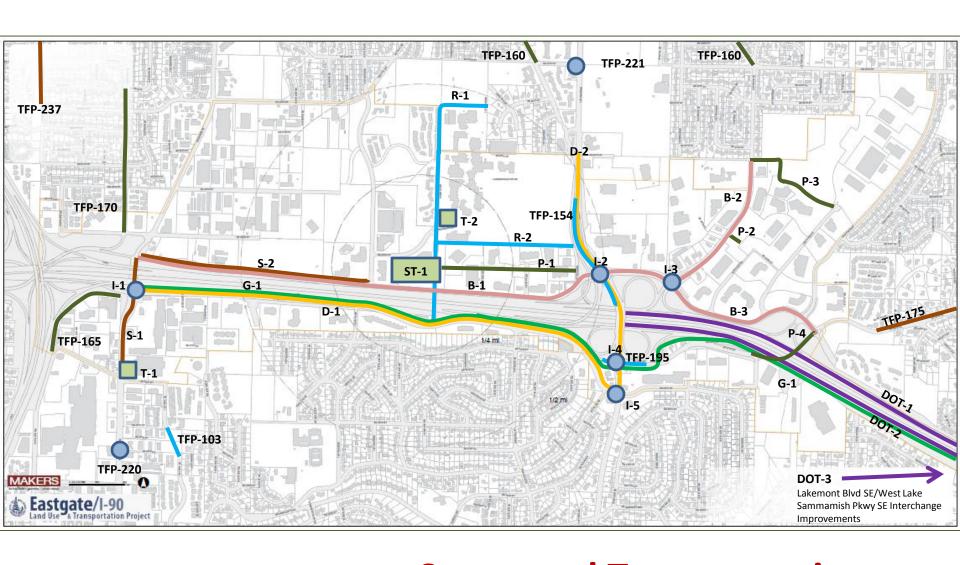


Transit Vision



Next Steps







Suggested Transportation Improvements

Open House



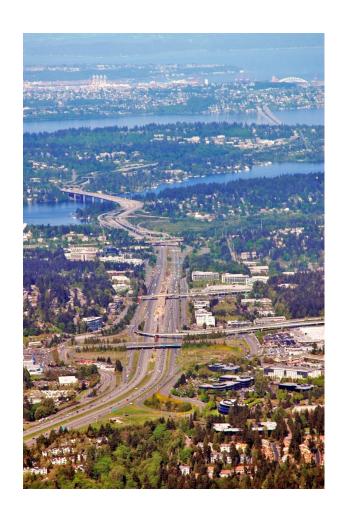
Tuesday, October 18, 2011
Robinswood House Cabana
2430 148th Avenue SE
4:00 – 6:00 PM







www.bellevuewa.gov/eastgate-corridor.htm



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